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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/694,519

DATE: 11/08/2000
TIME: 07:33:13

Input Set : A:\ES.txt
Output Set: N:\CRF3\11082000\I694519.raw

ENTERED

3 <110> APPLICANT: Isfort, Robert
 4 Sheldon, Russell
 6 <120> TITLE OF INVENTION: Methods for Identifying Compounds for Regulating Muscle Mass or Function
 7 Using Vasoactive Intestinal Peptide Receptors
 9 <130> FILE REFERENCE: 8311
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/694,519
 C--> 11 <141> CURRENT FILING DATE: 2000-10-23
 11 <160> NUMBER OF SEQ ID NOS: 16
 13 <170> SOFTWARE: Patentin version 3.0
 15 <210> SEQ ID NO: 1
 16 <211> LENGTH: 457
 17 <212> TYPE: PRT
 18 <213> ORGANISM: homo sapiens;
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 25 Gly Ala Leu Ala Trp Ala Leu Gly Pro Ala Gly Gly Gln Ala Ala Arg
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 28 Leu Gln Glu Glu Cys Asp Tyr Val Gln Met Ile Glu Val Gln His Lys
 29 35 40 45
 31 Gln Cys Leu Glu Glu Ala Gln Leu Glu Asn Glu Thr Ile Gly Cys Ser
 32 50 55 60
 34 Lys Met Trp Asp Asn Leu Thr Cys Trp Pro Ala Thr Pro Arg Gly Gln
 35 65 70 75 80
 37 Val Val Val Leu Ala Cys Pro Leu Ile Phe Lys Leu Phe Ser Ser Ile
 38 85 90 95
 40 Gln Gly Arg Asn Val Ser Arg Ser Cys Thr Asp Glu Gly Trp Thr His
 41 100 105 110
 43 Leu Glu Pro Gly Pro Tyr Pro Ile Ala Cys Gly Leu Asp Asp Lys Ala
 44 115 120 125
 46 Ala Ser Ile Asp Glu Gln Gln Thr Met Phe Tyr Gly Ser Val Lys Thr
 47 130 135 140
 49 Gly Tyr Thr Ile Gly Tyr Gly Leu Ser Leu Ala Thr Leu Leu Val Ala
 50 145 150 155 160
 52 Thr Ala Ile Leu Ser Leu Phe Arg Lys Leu His Cys Thr Arg Asn Tyr
 53 165 170 175
 55 Ile His Met His Leu Phe Ile Ser Phe Ile Leu Arg Ala Ala Val
 56 180 185 190
 58 Phe Ile Lys Asp Leu Ala Leu Phe Asp Ser Gly Glu Ser Asp Gln Cys
 59 195 200 205
 61 Ser Glu Gly Ser Val Gly Cys Lys Ala Ala Met Val Phe Phe Gln Tyr
 62 210 215 220
 64 Cys Val Met Ala Asn Phe Phe Trp Leu Leu Val Glu Gly Leu Tyr Leu
 65 225 230 235 240
 67 Tyr Thr Leu Leu Ala Val Ser Phe Phe Ser Glu Arg Lys Tyr Phe Trp
 68 245 250 255
 70 Gly Tyr Ile Leu Ile Gly Trp Gly Val Pro Ser Thr Phe Thr Met Val

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71      260      265      270
73 Trp Thr Ile Ala Arg Ile His Phe Glu Asp Tyr Gly Cys Trp Asp Thr
74      275      280      285
76 Ile Asn Ser Ser Leu Trp Trp Ile Ile Lys Gly Pro Ile Leu Thr Ser
77      290      295      300
79 Ile Leu Val Asn Phe Ile Leu Phe Ile Cys Ile Ile Arg Ile Leu Leu
80 305      310      315      320
82 Gln Lys Leu Arg Pro Pro Asp Ile Arg Lys Ser Asp Ser Ser Pro Tyr
83      325      330      335
85 Ser Arg Leu Ala Arg Ser Thr Leu Leu Ile Pro Leu Phe Gly Val
86      340      345      350
88 His Tyr Ile Met Phe Ala Phe Phe Pro Asp Asn Phe Lys Pro Glu Val
89      355      360      365
91 Lys Met Val Phe Glu Leu Val Val Gly Ser Phe Gln Gly Phe Val Val
92      370      375      380
94 Ala Ile Leu Tyr Cys Phe Leu Asn Gly Glu Val Gln Ala Glu Leu Arg
95 385      390      395      400
97 Arg Lys Trp Arg Arg Trp His Leu Gln Gly Val Leu Gly Trp Asn Pro
98      405      410      415
100 Lys Tyr Arg His Pro Ser Gly Gly Ser Asn Gly Ala Thr Cys Ser Thr
101      420      425      430
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120      20      25      30
122 Leu Gln Glu Glu Cys Asp Tyr Val Gln Met Ile Glu Val Gln His Lys
123      35      40      45
125 Gln Cys Leu Glu Glu Ala Gln Leu Glu Asn Glu Thr Ile Gly Cys Ser
126      50      55      60
128 Lys Met Trp Asp Asn Leu Thr Cys Trp Pro Ala Thr Pro Arg Gly Gln
129 65      70      75      80
131 Val Val Val Leu Ala Cys Pro Leu Ile Phe Lys Leu Phe Ser Ser Ile
132      85      90      95
134 Gln Gly Arg Asn Val Ser Arg Ser Cys Thr Asp Glu Gly Trp Thr His
135      100     105     110
137 Leu Glu Pro Gly Pro Tyr Pro Ile Ala Cys Gly Leu Asp Asp Lys Ala
138      115     120     125
140 Ala Ser Leu Asp Glu Gln Gln Thr Met Phe Tyr Gly Ser Val Lys Thr
141      130     135     140
143 Gly Tyr Thr Ile Gly Tyr Gly Leu Ser Leu Ala Thr Leu Leu Val Ala

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144 145          150          155          160
146 Thr Ala Ile Leu Ser Leu Phe Arg Lys Leu His Cys Thr Arg Asn Tyr
147           165          170          175
149 Ile His Met His Leu Phe Ile Ser Phe Ile Leu Arg Ala Ala Ala Val
150           180          185          190
152 Phe Ile Lys Asp Leu Ala Leu Phe Asp Ser Gly Glu Ser Asp Gln Cys
153           195          200          205
155 Ser Glu Gly Ser Val Gly Cys Lys Ala Ala Met Val Phe Phe Gln Tyr
156           210          215          220
158 Cys Val Met Ala Asn Phe Phe Trp Leu Leu Val Glu Gly Leu Tyr Leu
159 225          230          235          240
161 Tyr Thr Leu Leu Ala Val Ser Phe Phe Ser Glu Arg Lys Tyr Phe Trp
162           245          250          255
164 Gly Tyr Ile Leu Ile Gly Trp Gly Val Pro Ser Thr Phe Thr Met Val
165           260          265          270
167 Trp Thr Ile Ala Arg Ile His Phe Glu Asp Tyr Gly Leu Leu Arg Cys
168           275          280          285
170 Trp Asp Thr Ile Asn Ser Ser Leu Trp Trp Ile Ile Lys Gly Pro Ile
171           290          295          300
173 Leu Thr Ser Ile Leu Val Asn Phe Ile Leu Phe Ile Cys Ile Ile Arg
174 305          310          315          320
176 Ile Leu Leu Gln Lys Leu Arg Pro Pro Asp Ile Arg Lys Ser Asp Ser
177           325          330          335
179 Ser Pro Tyr Ser Arg Leu Ala Arg Ser Thr Leu Leu Leu Ile Pro Leu
180           340          345          350
182 Phe Gly Val His Tyr Ile Met Phe Ala Phe Phe Pro Asp Asn Phe Lys
183           355          360          365
185 Pro Glu Val Lys Met Val Phe Glu Leu Val Val Gly Ser Phe Gln Gly
186           370          375          380
188 Phe Val Val Ala Ile Leu Tyr Cys Phe Leu Asn Gly Glu Val Gln Ala
189 385          390          395          400
191 Glu Leu Arg Arg Lys Trp Arg Arg Trp His Leu Gln Gly Val Leu Gly
192           405          410          415
194 Trp Asn Pro Lys Tyr Arg His Pro Ser Gly Gly Ser Asn Gly Ala Thr
195           420          425          430
197 Cys Ser Thr Gln Val Ser Met Leu Thr Arg Val Ser Pro Gly Ala Arg
198           435          440          445
200 Arg Ser Ser Ser Phe Gln Ala Glu Val Ser Leu Val
201           450          455          460
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206 <213> ORGANISM: rattus norvegicus;
208 <400> SEQUENCE: 3
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213 Gly Ala Leu Ala Cys Ala Leu Arg Pro Ala Gly Ser Gln Ala Ala Ser
214           20          25          30
216 Pro Gln His Glu Cys Glu Tyr Leu Gln Leu Ile Glu Ile Gln Arg Gln

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217      35          40          45
219 Gln Cys Leu Glu Glu Ala Gln Leu Glu Asn Glu Thr Thr Gly Cys Ser
220      50          55          60
222 Lys Met Trp Asp Asn Leu Thr Cys Trp Pro Thr Thr Pro Arg Gly Gln
223 65      70          75          80
225 Ala Val Val Leu Asp Cys Pro Leu Ile Phe Gln Leu Phe Ala Pro Ile
226      85          90          95
228 His Gly Tyr Asn Ile Ser Arg Ser Cys Thr Glu Glu Gly Trp Ser Gln
229      100         105         110
231 Leu Glu Pro Gly Pro Tyr His Ile Ala Cys Gly Leu Asn Asp Arg Ala
232      115         120         125
234 Ser Ser Leu Asp Glu Gln Gln Thr Lys Phe Tyr Asn Thr Val Lys
235      130         135         140
237 Thr Gly Tyr Thr Ile Gly Tyr Ser Leu Ser Leu Ala Ser Leu Leu Val
238 145      150         155         160
240 Ala Met Ala Ile Leu Ser Leu Phe Arg Lys Leu His Cys Thr Arg Asn
241      165         170         175
243 Tyr Ile His Met His Leu Phe Met Ser Phe Ile Leu Arg Ala Thr Ala
244      180         185         190
246 Val Phe Ile Lys Asp Met Ala Leu Phe Asn Ser Gly Glu Ile Asp His
247      195         200         205
249 Cys Ser Glu Ala Ser Val Gly Cys Lys Ala Ala Val Val Phe Phe Gln
250      210         215         220
252 Tyr Cys Val Met Ala Asn Phe Phe Trp Leu Leu Val Glu Gly Leu Tyr
253 225      230         235         240
255 Leu Tyr Thr Leu Leu Ala Val Ser Phe Phe Ser Glu Arg Lys Tyr Phe
256      245         250         255
258 Trp Gly Tyr Ile Leu Ile Gly Trp Gly Val Pro Ser Val Phe Ile Thr
259      260         265         270
261 Ile Trp Thr Val Val Arg Ile Tyr Phe Glu Asp Phe Gly Cys Trp Asp
262      275         280         285
264 Thr Ile Ile Asn Ser Ser Leu Trp Trp Ile Ile Lys Ala Pro Ile Leu
265      290         295         300
267 Leu Ser Ile Leu Val Asn Phe Val Leu Phe Ile Cys Ile Ile Arg Ile
268 305      310         315         320
270 Leu Val Gln Lys Leu Arg Pro Pro Asp Ile Gly Lys Asn Asp Ser Ser
271      325         330         335
273 Pro Tyr Ser Arg Leu Ala Lys Ser Thr Leu Leu Leu Ile Pro Leu Phe
274      340         345         350
276 Gly Ile His Tyr Val Met Phe Ala Phe Phe Pro Asp Asn Phe Lys Ala
277      355         360         365
279 Gln Val Lys Met Val Phe Glu Leu Val Val Gly Ser Phe Gln Gly Phe
280      370         375         380
282 Val Val Ala Ile Leu Tyr Cys Phe Leu Asn Gly Glu Val Gln Ala Glu
283 385      390         395         400
285 Leu Arg Arg Lys Trp Arg Arg Trp His Leu Gln Gly Val Leu Gly Trp
286      405         410         415
288 Ser Ser Lys Ser Gln His Pro Trp Gly Gly Ser Asn Gly Ala Thr Cys
289      420         425         430

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Input Set : A:\ES.txt
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291 Ser Thr Gln Val Ser Met Leu Thr Arg Val Ser Pro Ser Ala Arg Arg
292      435          440          445
294 Ser Ser Ser Phe Gln Ala Glu Val Ser Leu Val.
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298 <211> LENGTH: 459
299 <212> TYPE: PRT
300 <213> ORGANISM: mus musculus;
302 <400> SEQUENCE: 4
304 Met Arg Pro Pro Ser Leu Pro Pro Ala Arg Trp Leu Cys Val Leu Ala
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308      20          25          30
310 Pro His Gln Glu Cys Glu Tyr Leu Gln Met Ile Glu Lys Gln Arg Gln
311      35          40          45
313 Gln Cys Leu Glu Glu Ala Gln Leu Glu Asn Lys Thr Thr Gly Cys Ser
314      50          55          60
316 Lys Met Trp Asp Asn Leu Thr Cys Trp Pro Thr Thr Pro Trp Gly Gln
317 65          70          75          80
319 Val Val Val Leu Asp Cys Pro Leu Ile Phe Gln Leu Phe Ser Pro Ile
320      85          90          95
322 His Gly Tyr Asn Ile Ser Arg Asn Cys Thr Glu Glu Gly Trp Ser Gln
323      100         105         110
325 Leu Glu Pro Gly Pro Tyr His Ile Ala Cys Gly Leu Asn Asp Arg Ala
326      115         120         125
328 Ser Ser Met Asp Glu Gln Gln Thr Glu Phe Tyr Asp Ala Val Lys
329      130         135         140
331 Thr Gly Tyr Thr Ile Gly Tyr Ser Leu Ser Leu Ala Ser Leu Leu Val
332 145         150         155         160
334 Ala Met Ala Ile Leu Ser Leu Phe Arg Lys Leu His Cys Thr Arg Asn
335      165         170         175
337 Tyr Ile His Met His Leu Phe Met Ser Phe Ile Leu Arg Ala Thr Ala
338      180         185         190
340 Val Phe Ile Lys Asp Met Ala Leu Phe Asn Asn Gly Glu Thr Asp His
341      195         200         205
343 Cys Ser Glu Ala Ser Val Ser Cys Lys Ala Ala Val Val Phe Phe Gln
344      210         215         220
346 Tyr Cys Val Met Ala Asn Phe Phe Trp Leu Leu Val Glu Gly Leu Tyr
347 225         230         235         240
349 Leu His Thr Leu Leu Ala Val Ser Phe Phe Ser Glu Arg Lys Tyr Phe
350      245         250         255
352 Trp Gly Tyr Ile Leu Ile Gly Trp Gly Val Pro Ser Val Phe Ile Met
353      260         265         270
355 Ile Trp Thr Ile Val Arg Ile His Phe Glu Asp Phe Gly Cys Trp Asp
356      275         280         285
358 Thr Ile Ile Asn Ser Ser Leu Trp Trp Ile Ile Lys Gly Pro Ile Leu
359      290         295         300
361 Ile Ser Ile Leu Val Asn Phe Ile Leu Phe Ile Cys Ile Ile Arg Ile
362 305         310         315         320

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VERIFICATION SUMMARY DATE: 11/08/2000
PATENT APPLICATION: US/09/694,519 TIME: 07:33:14

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date